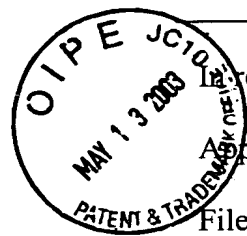


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of: Turner et al.

Application No.: 09/998,993

Filed: November 15, 2001

Attorney Docket No.:
NOVLP074/NVLS-000414

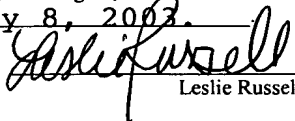
Examiner: Maldonado, Julio J

Group: 2823

Title: PHOSPHOROUS-DOPED SILICON
DIOXIDE PROCESS TO CUSTOMIZE
CONTACT ETCH PROFILESCERTIFICATE OF MAILINGI hereby certify that this correspondence is being deposited with the
United States Postal Service as First Class Mail to: Commissioner for
Patents, Washington, DC 20231 on

May 8, 2003.

Signed:


Leslie RussellRECEIVED
MAY 14 2003
TECHNOLOGY CENTER 2800**POWER OF ATTORNEY BY ASSIGNEE
AND REVOCATION OF PREVIOUS POWERS**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Novellus Systems, Inc., ("assignee"), a California corporation having a place of business 3970 North First Street, San Jose, CA 95134, certifies that to the best of assignee's knowledge and belief it is the assignee of the entire right, title, and interest in and to the above-referenced patent application and represents that the undersigned is a representative authorized and empowered to sign on behalf of the assignee.

Assignee has reviewed the assignment document that evidences the placement of title in the assignee, a true and correct copy of which is attached hereto, and understands and believes that this assignment document has been submitted for recordation in the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. §§1.36 and 3.71, the assignee hereby revokes all powers of attorney previously given and hereby appoints the law firm of Beyer Weaver & Thomas, LLP and all practitioners who are associated with the **Customer Number 022434** as principal

attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please send all correspondence for this application as follows:

Customer Number 022434
BEYER WEAVER & THOMAS, LLP
P.O. Box 778
Berkeley, CA 94704-0778

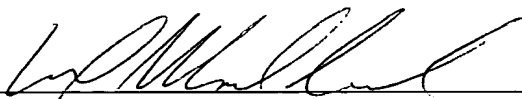


Please direct any calls to **Jeffrey K. Weaver** (510) 843-6200.

Assignee of Interest:

Novellus Systems, Inc.
3970 North First Street, San Jose, CA 95134

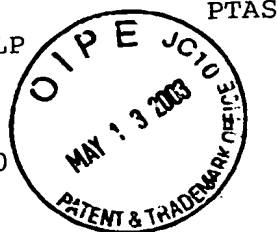
Date MAY 6, 2002


Name: Wilbert G. M. van den Hoek
Title: Chief Technical Officer and Executive Vice
President

JUNE 14, 2002

JUN 21 2002

SKJERVEN MORRILL LLP
TOM CHEN
25 METRO DRIVE
SUITE 700
SAN JOSE, CA 95110



Skjerven, Morrill LLP



102062689A

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/09/2002

REEL/FRAME: 012798/0365
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
TURNER, MICHAEL

DOC DATE: 01/30/2002

ASSIGNOR:
FUNG, WAIKIT

DOC DATE: 03/16/2002

ASSIGNOR:
GRAUDEJUS, OLIVER

DOC DATE: 04/05/2002

ASSIGNOR:
WINANDY, DOUG

DOC DATE: 04/05/2002

ASSIGNEE:
NOVELLUS SYSTEMS, INC.
4000 NORTH FIRST STREET
SAN JOSE, CALIFORNIA 95134

SERIAL NUMBER: 09998993
PATENT NUMBER:

FILING DATE: 11/15/2001
ISSUE DATE:

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"Assignment P/w eff"

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7-5-02



102062689

FORM COVER SHEET
PATENTS ONLY

PATENT AND TRADEMARK OFFICE

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies):

- (a) Turner, Michael;
(b) Fung, Waikit;
(c) Graudejus, Oliver;
(d) Winandy, Doug.

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Novellus Systems, Inc.
Street Address: 4000 North First Street
City: San Jose California 95134
Country: U.S.A.

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other (Enter Description)

Execution Date: January 30, 2002; March 16, 2002; April 5, 2002

Name and address of receiving party(ies):

Name:
Street Address:
City: State: Zip:
Country:

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) - 09/998,993

Title: Phosphorus-Doped Silicon Dioxide Process To Customize Contact Etch Profiles

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Tom Chen
Internal Address: SKJERVEN MORRILL LLP
Street Address: 25 METRO DRIVE, SUITE 700
City: SAN JOSE State: CA Zip: 95110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Authorized to be charged to Deposit Account 19-2386
☒ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

04/19/2002 DBYRNE 00000135 192386 09998993

01 FC:581 40.00 CH

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8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Tom Chen 42,406
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 5

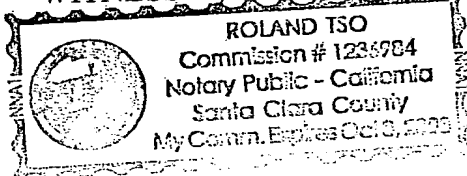
Executed this 30 day of January, 2002.

Waikit Fung
Waikit Fung

State of California)
County of Santa Clara) ss.

On January 30, 2002 before me, Roland Tso, Notary Public personally appeared Waikit Fung personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Roland Tso
SIGNATURE OF NOTARY

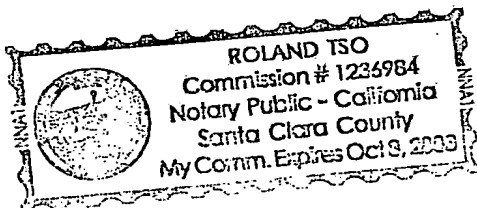
Executed this 30 day of JANUARY, 2002.

Oliver Graudejus
Oliver Graudejus

State of California)
County of Santa Clara) ss.

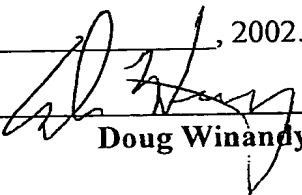
On January 30, 2002 before me, Roland Tso, Notary Public personally appeared Oliver Graudejus personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Roland Tso
SIGNATURE OF NOTARY

Executed this 16th day of March, 2002.

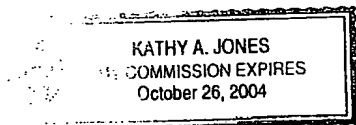


 Doug Winandy

State of Texas)
)
 County of Tarrant) ss.

On 16th March, 2002 before me, Kathy A. Jones
 personally appeared Douglas Winandy personally
 known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose
 name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they
 executed the same in his/her/their authorized capacity(ies), and that by his/her/their
 signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
 acted, executed the instrument.

WITNESS my hand and official seal.



Kathy A. Jones

 SIGNATURE OF NOTARY